

IPO/OSB/M-173-66
10 November 1966

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

SUBJECT : Comments on Development Objectives for the Advanced Stereo Rhomboid

1. The Advanced Stereo Rhomboid Prototype Model II Development Objectives were received by PAG and the following comments forwarded concerning section 3-Requirements:

a) 3.1. Configuration Adjustment of the rhomboids should cover an arc of at least 200° . For example, from 10° in from the microstereoscope rhomboid centerline parallel to the "y" axis of the viewing surface at the near side to 10° in from the "y" axis of the viewing surface at the far side. This latitude should enable maximum stretch in the "y" direction with the microstereoscope binoculars oriented parallel to the X axis of the viewing surface. Rotation of the pod is acceptable as stated.

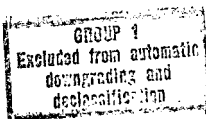
b) 3.2. Image Separation A further discussion with personnel in PAG resulted in a request for image separation of at least 12 inches in order to use this rhomboid with split light surface tables. Minimum separation of two inches is acceptable.

c) 3.4. Monoscopic Viewing Present 0.5X is used very seldom, but is used. The 2.0X objective enjoys greater usage. Use of a 1.0X objective is questionable and not recommended since instrument produces 1:1 ratio image. 2.0 and 3.0 can be used to advantage.

d) 3.5. Image Rotation There should be no error in optical centering.

e) 3.6. Resolution 1X objective resolution should stand at present resolution figure of at least 160 lines/mm per tests conducted in 1965; unless, better resolution has resulted from additional and more recent tests.

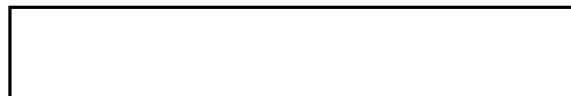
Declass Review by NGA.



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SUBJECT: Comments on Development Objectives for the Advanced Stereo Rhomboid

X1 2. In developing this rhomboid it is anticipated that the present specifications for the [] Twin Light Source Table may have to be revised to accommodate the elongated rhomboid arms. It is understood that this development was primarily for use with 940 Light Tables however, use of the rhomboid on the light base must also be considered.

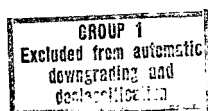


25X

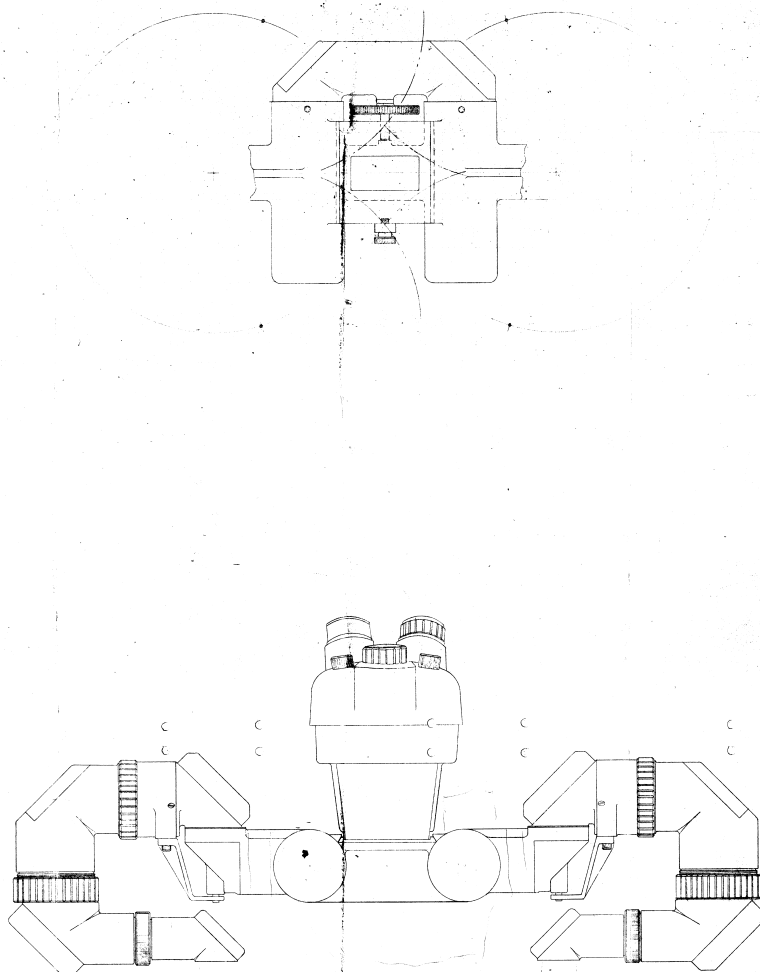
Colonel, USA
Assistant for Photographic Analysis, NPIC

Distribution:

Orig & 1 - Addressee
1 - Asst. for PA
1 - Chrono



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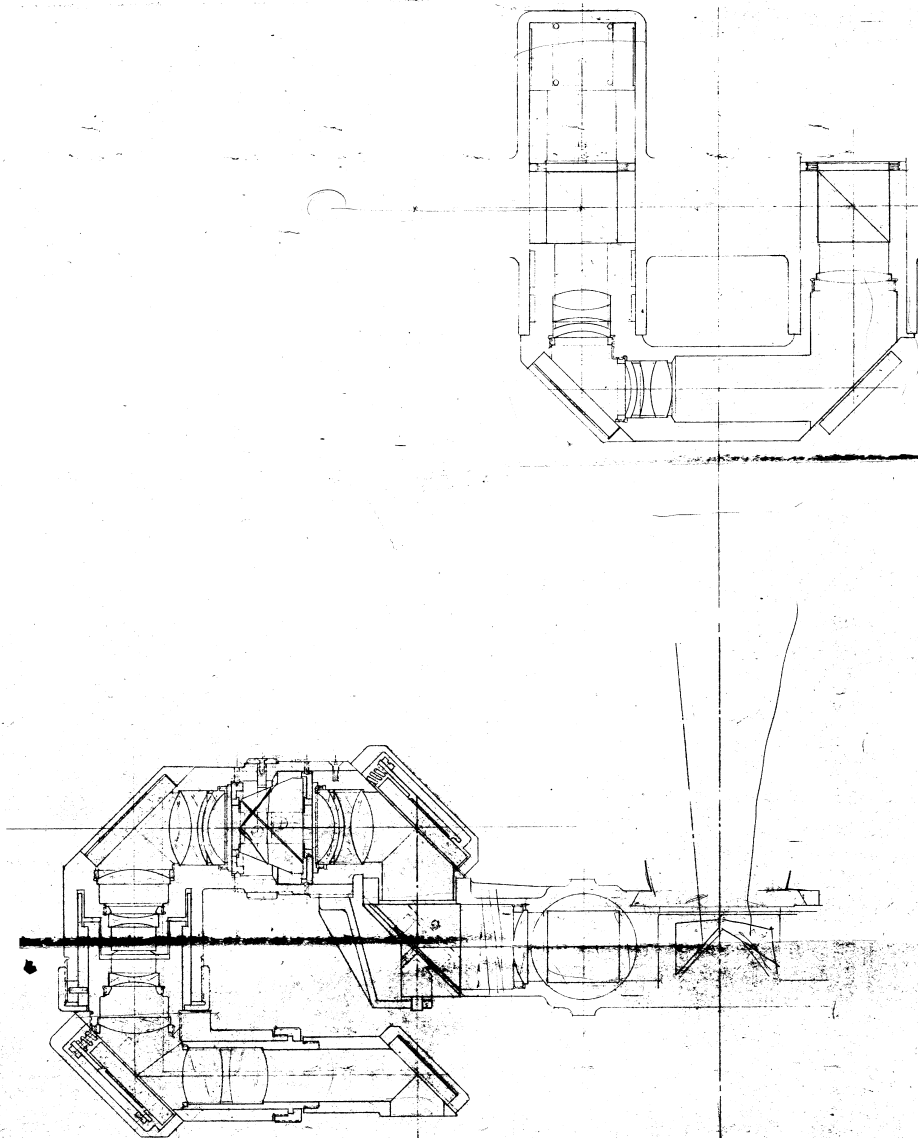
FILM PLANE

25X1

JOSEY BROWN CCL

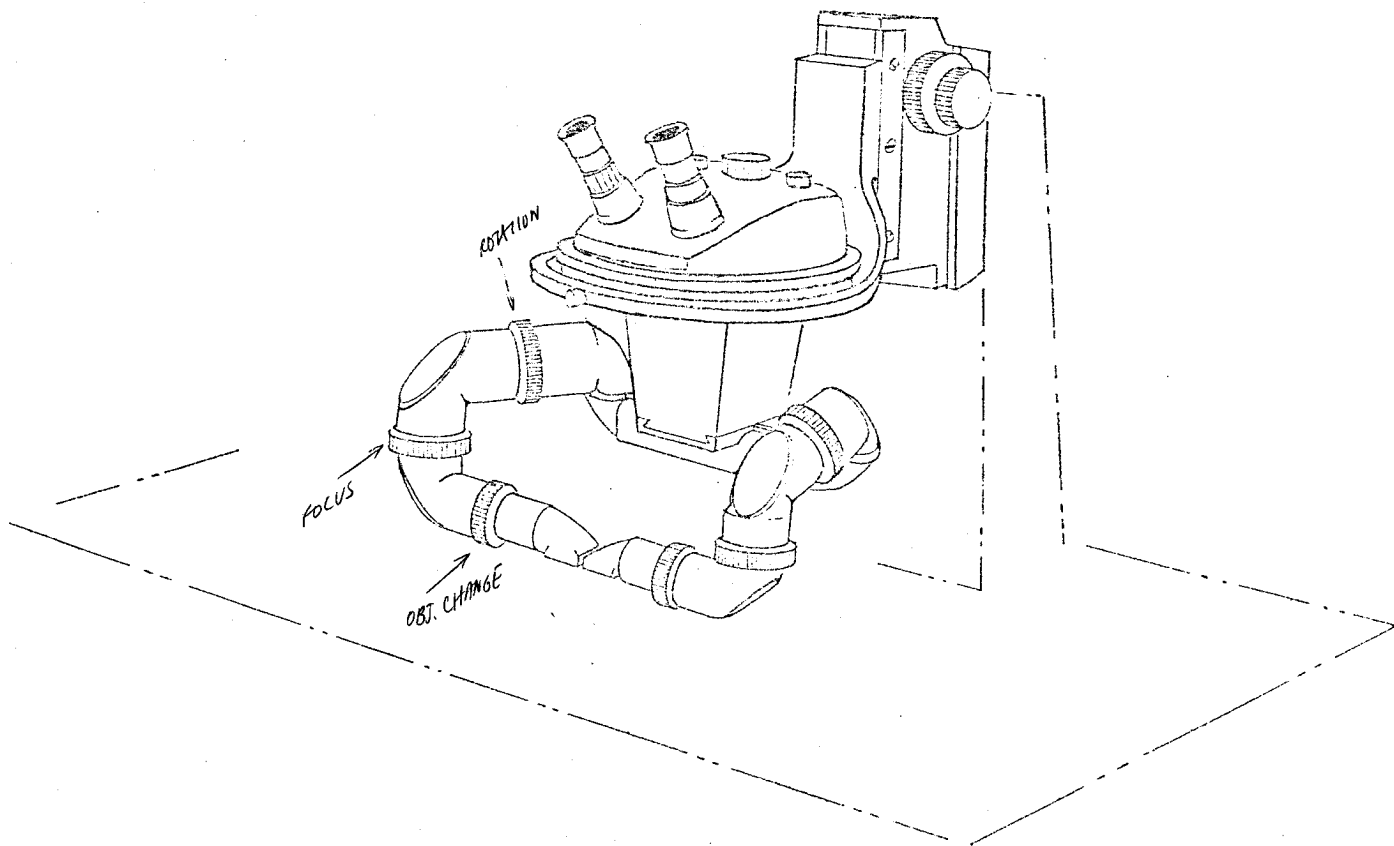
COSMETIC QUALITY - GRADE D UNLESS OTHERWISE SPECIFIED	MATL.	25X1
	FINISH	

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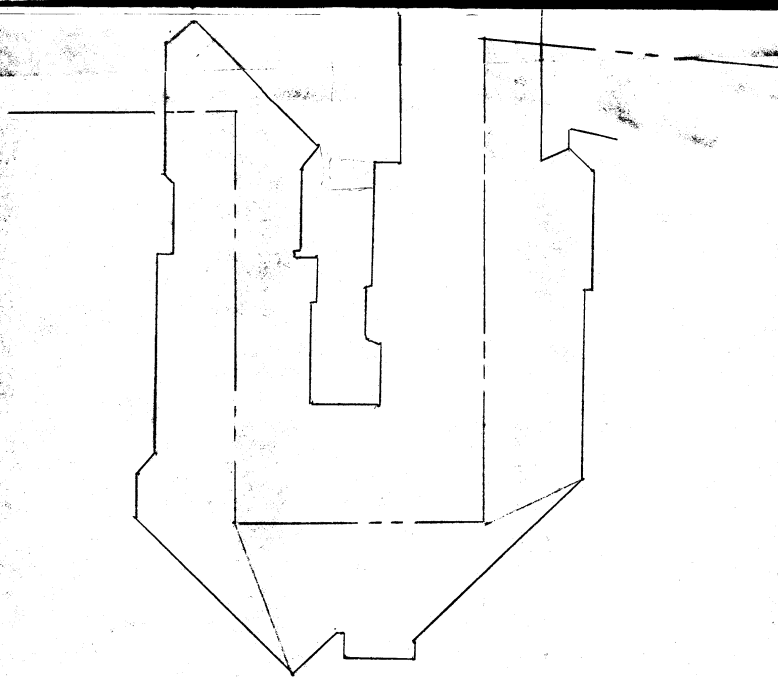
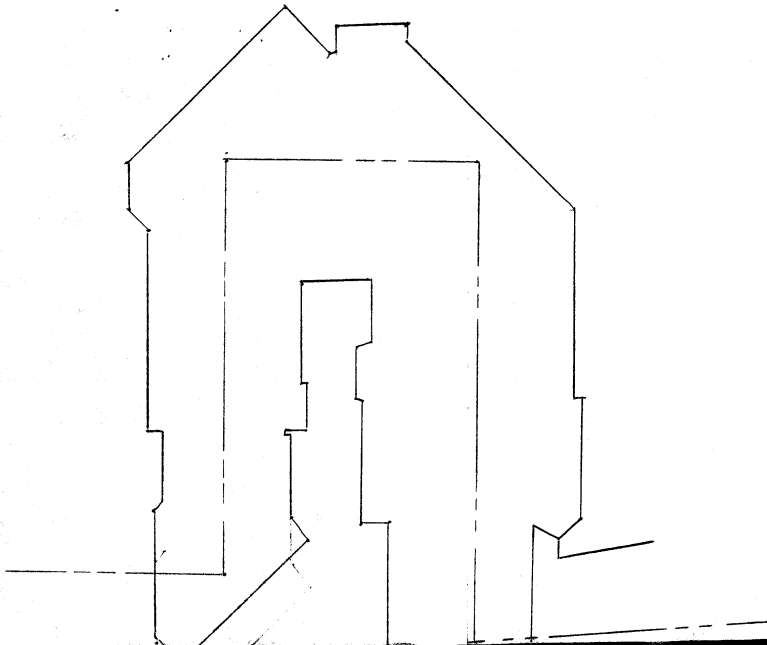


ADVANCED STEREO RHOMBOIDS

25X1



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01-8

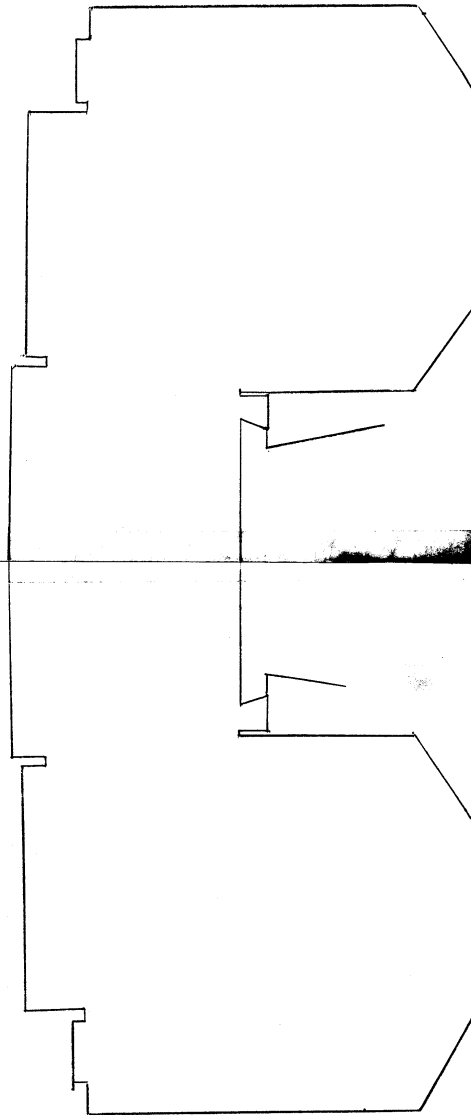


172

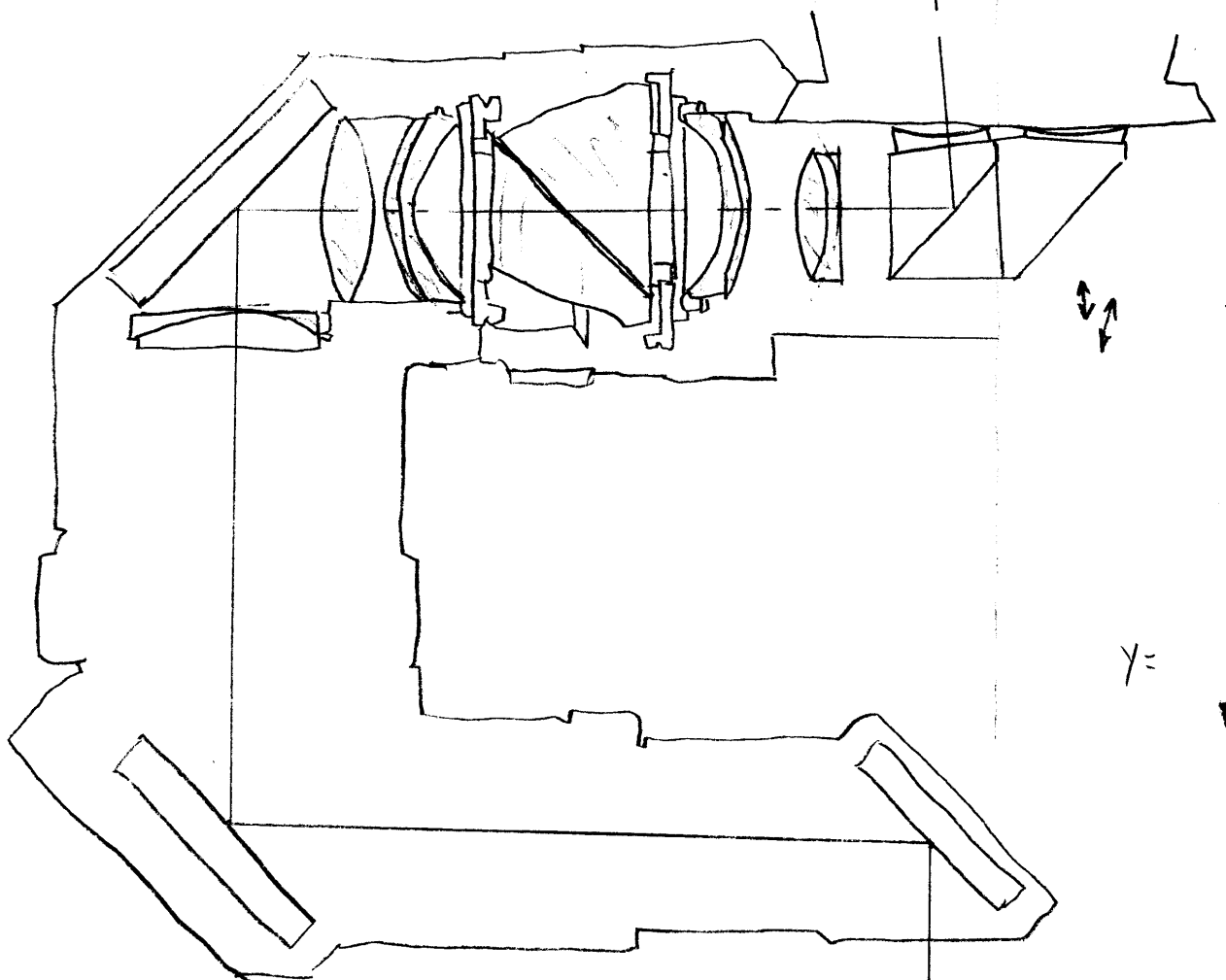
6.6
6.0 →
12.6 maximum
.4
13.00

1 ——— E 3x
2 ——— E 2x
3 ———

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4
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4
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Approved For Release 2005/02/17 : CIA-RDP78B04770A000100080014-9



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NO SLIDE NEEDED IF OPTICAL
SWITCH OK.